

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-276510

(43)Date of publication of application : 12.10.1999

(51)Int.Cl.

A61F 2/28

A61F 2/30

A61L 27/00

(21)Application number : 10-085196

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(22)Date of filing : 31.03.1998

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## (54) SURFACE MODIFYING BONE PROTHESIS MEMBER AND METHOD FOR MANUFACTURING THE SAME

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a surface modifying bone prothesis member for safely applying to a section where a large shear intensity is added by providing a three-dimentional surface structure, of which ingrowth of a newly generated bone quickly grows and of which density of space occupancy becomes large.

**SOLUTION:** This surface modifying bone prothesis member comprises in such a manner that a mixed material, CM chitin sponge 3, which is mixed with CM chitin, a granule of calcium phosphate such as HAP, TCP, and AWGC, is filled into space of a three-dimensional madreporite, beads block 1, formed from a non-absorbent material for an organism such as a wire mesh and a beads-combined body. A method for manufacturing the prothesis member is showed in such a way that the three-dimensional madreporite 1 or a bone prothesis member F having the madreporite 1 at a desired part of the surface is soaked into a CM chitin aqueous solution and taken out to rapidly cool.

